INPUT/OUTPUT LIST

NAME	DESIGNATION	MEMORY LOCATION
DOOR 1 NOT FULL OPEN	LS1A	I:1/0
DOOR 1 NOT FULL CLOSED	LS1B	I:1/1
DOOR 1 SAFETY SWITCH OK	PS11A	I:1/2
DOOR 1 SEALED	PS1	I:1/3
DOOR 2 NOT FULL OPEN	LS2A	I:1/4
DOOR 2 NOT FULL CLOSED	LS2B	I:1/5
DOOR 2 SAFETY SWITCH OK	PS11B	I:1/6
DOOR 2 SEALED	PS2	I:1/6
CHAMBER PRESSURE SWITCH	PS6	I:1/7
RUPTURE DISK FAILURE	PS4	I:1/8
EMERGENCY STOP	PB4D1	I:1/10
HIGH DRAIN WATER LEVEL	LT1	I:1/11
CONDENSER TEMP HIGH	TS1	I:1/12
VACUUM PUMP TRIPPED	MS3D2	I:1/13
120VAC POWER SUPPLY OK	N/A	I:1/14
OPEN DOOR	PB200	I:2/0
CLOSE DOOR	PS201	I:2/1
OPEN DOOR 2	PB202	I:2/2
CLOSE DOOR 2	PB203	I:2/3
ALARM ACKNOWLEDGE	PB204	I:2/4

Technical data

SLC 500 System Test General Specifications

The table below lists SLC 500 system test specifications.

Description	Specification	Industry Standard
Temperature	Operating: 0° C to +60° C (32° F to 140° F)	Not Applicable
	Storage: –40° C to +85° C (–40° F to 185° F)	Not Applicable
Humidity	5 to 95% without condensation	Not Applicable
Vibration	Operating: 1.0G @ 5 – 2000 Hz	Not Applicable
	Non-operating: 2.5Gs @ 5 – 2000 Hz	Not Applicable
Shock	Operating: (all modules except relay contact) 30.0Gs (3 pulses, 11 ms)	Not Applicable
	Operating: (relay contact modules – OW, IO combo) 10.0Gs (3 pulses, 11 ms)	Not Applicable
	Non-operating: 50.0Gs (3 pulses, 11 ms)	Not Applicable
Free Fall (drop test)	Portable, 2.268 kg (5 lbs) or less @ 0.762 m (30 in.) (six drops)	Not Applicable
	Portable, 2.268 kg (5 lbs) or more @ 0.1016 m (4 in.) (three flat drops)	Not Applicable
Electromagnetic Compatibility	Showering Arc: 1.5 KV	NEMA ICS 2-230/NEMA ICS 3-304
	Surge Withstand Capability: 3 KV	IEEE Std. 472-1974/ANSI C37.90/90A-1974
	Fast Transient Burst (impulse): 2Kv for 1746 power supplies, 1KV for 1746 I/O and communication lines over 10m (32.84 ft), 5 ns rise time	Internal Allen-Bradley standard ①
	Electrostatic Discharge (ESD): 15 Kv, 100 pF/1.5 Kohm model	Internal Allen-Bradley standard ①
	Radiated Electromagnetic Susceptibility: 5w walkie-talkie @ 464.5 MHz and 153.05 MHz	Internal Allen-Bradley standard ①
Safety	Dielectric Withstand: 1500V ac	UL 508, CSA C22.2 No. 142
	Isolation between Communication Circuits: 500V dc	Not Applicable
	Isolation between Backplane and I/Os: 1500V ac	Not Applicable
	Flammability and Electrical Ignition: UL94V-0	Not Applicable
Certification	UL listed/CSA approved Class 1, Groups A, B, C or D, Division 2 CE marked for all applicable directives	Not Applicable

① Internal Allen-Bradley standards are based on Allen-Bradley's extensive experience in industrial controls. It is also based partly on industry and/or military specifications.

Power Supply Specifications

Description	1746-P1	1746-P2	1746-P3	1746-P4
Line Voltage	85-132/170-265V ac 47-63 Hz	85-132/170-265V ac 47-63 Hz	19.2-28.8V dc	85-132/170-265V ac 47-63 Hz
Typical Line Power Requirement①	135 VA	180 VA	90 VA	240 VA
Maximum Inrush Current	20A	20A	20A	45A
Internal Current Capacity	2A at 5V dc 0.46A at 24V dc	5A at 5V dc 0.96A at 24V dc	3.6A at 5V dc 0.87A at 24V dc	10.0A at 5V dc 2.88A at 24V dc③
Fuse Protection②	1746-F1 or equivalent: 250V-3A Fuse Nagasawa ULCS-61ML-3 or BUSSMANN AGC 3	1746-F2 or equivalent: 250V-3A Fuse SANO SOC SD4 or BUSSMANN AGC 3	1746-F3 or equivalent: 125V-5A Fuse Nagasawa ULCS-61ML-5 or BUSSMAN AGC 5	Non-replaceable fuse is soldered in place.
24V dc User Power Current Capacity	200 mA	200 mA	Not Applicable	1A③
24V dc User Power Voltage Range	18-30V dc	18-30V dc	Not Applicable	20.4-27.6V dc
Ambient Operating Temperature Rating	0° C to 60° C (32° F to 140° F) (Current capacity derated 5% above 55° C)			0° C to 60° C (32° F to 140° F) no derating
Storage Temperature	–40° C to 85° C (–40° F to 185° F)			
Humidity Rating	5-95% (non-condensing)			
Wiring	two #14 AWG wires per terminal (maximum)			
Certification (when product or packaging is marked)	UL listed CSA certified CE marked for all applicable directives			
Hazardous Environment Certification	Class I Division 2			

① Refer to appendix F to determine line power requirements for your configuration.

② Power supply fuse is intended to guard against fire hazard due to short circuit conditions and may not protect the supply from damage under overload conditions.

③ The combination of all output power (5 volt backplane, 24 volt backplane, and 24 volt user source) cannot exceed 70 Watts.